

Comparisons of Job Characteristics

Focus Occupation: Conservation Scientists (19-1031)

Associated Occupation: Forest and Conservation Workers (45-4011)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 68

Focus Occupation: Conservation Scientists (19-1031)

Associated Occupation: Forest and Conservation Workers (45-4011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mathematics	9.2	14.0	10.1	<< Extensive education and/or training may be required
Geography	3.9	13.8	14.3	0 Current knowledge level may be sufficient
Biology	3.7	12.8	16.2	>> Current knowledge level is likely more than sufficient
Administration and Management	8.4	11.7	10.8	0 Current knowledge level may be sufficient
Personnel and Human Resources	5.6	9.3	7.0	<< Extensive education and/or training may be required
Law and Government	5.9	9.0	11.4	> Current knowledge level is likely sufficient
Transportation	4.6	8.1	3.3	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 80

Focus Occupation: Conservation Scientists (19-1031)

Associated Occupation: Forest and Conservation Workers (45-4011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Management of Material Resources	3.7	5.5	4.7	< A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 76

Focus Occupation: Conservation Scientists (19-1031)

Associated Occupation: Forest and Conservation Workers (45-4011)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Static Strength	5.0	10.5	5.8	<<	Extensive improvement in abilities may be required
Multilimb Coordination	6.0	9.8	7.6	<	Some improvement in abilities may be required
Dynamic Strength	3.5	7.3	4.4	<<	Extensive improvement in abilities may be required
Stamina	4.0	7.3	4.4	<<	Extensive improvement in abilities may be required
Spatial Orientation	2.7	6.5	5.0	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 85

Focus Occupation: Conservation Scientists (19-1031)

Associated Occupation: Forest and Conservation Workers (45-4011)

Work Activities	Exclusivity of Activity
Identify crop characteristics	75
Interpret aerial photographs	69
Read maps	42
Read measuring or metering devices used in forestry	89
Recognize plant diseases	72
Recognize tree or forest plant species	78
Recognize wood species characteristics	78
Use fire suppression techniques	89
Use hand or power tools	2
Use herbicides, fertilizers, pesticides or related products	71

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 72

Focus Occupation: Conservation Scientists (19-1031)

Associated Occupation: Forest and Conservation Workers (45-4011)

Tools and Technologies	Exclusivity
Audio and visual equipment	4
Computers	1
Content authoring and editing software	1
Information exchange software	1
Length and thickness and distance measuring instruments	2
Measuring and layout tools	3

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.